

4 Cellular, 1 GPS Combination Antenna  
4 SMA, 1 SMA Connector Black



## FMANOM1102

### Features

- 4 x Cellular 4G/5G SMA Male
- 1 x GPS L1 / G1 SMA Male
- MIMO Capable
- 17 ft Cable Leads
- Indoor/Outdoor IP69K Rated
- UV Stabilized Black ABS

### Applications

- Public Safety
- Emergency Services
- Mobile Base Stations
- Autonomous Vehicles
- Fleet Management
- Smart Cities
- Smart Utilities
- Industrial IoT

### Description

The Fairview Microwave FMANOM1102 is a 5-in-1 combination antenna designed for public safety, emergency services, mobile base stations, autonomous vehicles, fleet management, smart cities, smart utilities, or industrial IoT applications. This vertically polarized omnidirectional antenna has SMA male connectors with 17 feet cable leads. Our high-quality mobile antenna with 5 ports has a typical input VSWR of 2:1.

The IoT combination antenna from Fairview Microwave has an overall length of 7 inches, width of 7 inches, and weight of 4 lbs. This FMANOM1102 mobile antenna is IP69K-rated and has a black-colored radome made of UV-stabilized ABS. The 4 cellular, 1 GPS combination antenna has an impedance of 50 Ohms and a maximum input power of 10 Watts.

Our vertically polarized mobile antenna can operate at temperatures ranging from -40 to 70 degrees C. This MIMO-capable IoT antenna features four 4G/5G, and one L1/G1 GPS band elements in one radome. Emergency services, first responders, and fleets can rely on our 5-in-1 combination antenna to maintain a secure link between vehicles and dispatch centers.

### Configuration

Design	Mobile
Radiation Pattern	Omni Directional
Polarization	Vertical
Connector Type	SMA Male
Number of Ports	5

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units	
Input VSWR		2:1			
Impedance		50		Ohms	
Input Power			10	Watts	
<b>Cellular Specifications</b>					
Frequency Range	617 - 960	1690 - 2700	3300 - 4200	4900 - 6000	MHz
Peak Gain	4	6	7	8	dBi
Port Count		4			
Cable Type		RG58			
Cable Length		17 [5]			ft [m]
Connector Type		SMA Male			

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GPS Specifications		
Frequency Range	1562 - 1612	MHz
VSWR	<2.0:1 ± 4 MHz	
LNA Gain	26	dB
Out of band rejection	>40 dB (@ > +/- 100 MHz)	
Typical Noise Figure	≤ 2.7	dB
Notch Filter rejection @787MHz	24	dB
Operating Voltage	3 - 5	VDC
Typical Current	15	mA
Cable Type / Length	RG174 / 17 ft [5 m]	
Connector Type	SMA Male	

### Mechanical Specifications

Radome Material	UV Stabilized ABS
<b>Size</b>	
Length	7 in [177.8 mm]
Width	7 in [177.8 mm]
Height	3.15 in [80.01 mm]
Weight	4 lbs [1.81 kg]

### Environmental Specifications

<b>Temperature</b>	
Operating Range	-40 to +70 deg C
Ingress Protection	IP69K

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

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### Typical Radiation Pattern

### Appendix

**Electrical Downtilt:** Angle in the antenna's elevation pattern in which the maximum gain occurs.

**Gain:** Antenna's average gain.

**Front to Back Ratio @ 180°±30°:** Average difference between the antenna's maximum gain and the maximum gain in the antenna's back lobe over ±30° angles.

**Cross-polarization Ratio (dB):** Typical difference between the co-polarization and cross-polarization gain across the sector's 3 dB Beam Width.

Dedicated to serving the needs of the Wireless Internet Service Provider (WISP) market, KP Performance Antennas offers purpose built products that reliably perform in the field. KP Performance Antennas product line consists of Yagi, Grid, Omni, Dish and other style antennas that operate in the 900 MHz, 2.4 GHz, 3 GHz, and 5 GHz frequencies.

4 Cellular, 1 GPS Combination Antenna 4 SMA, 1 SMA Connector Black from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [4 Cellular, 1 GPS Combination Antenna 4 SMA, 1 SMA Connector Black FMANOM1102](#)

URL: <https://www.fairviewmicrowave.com/product/antennas/dbi-band-mobile-antenna-sma-connector-fmanom1102.html>

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# FMANOM1102 CAD Drawing

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